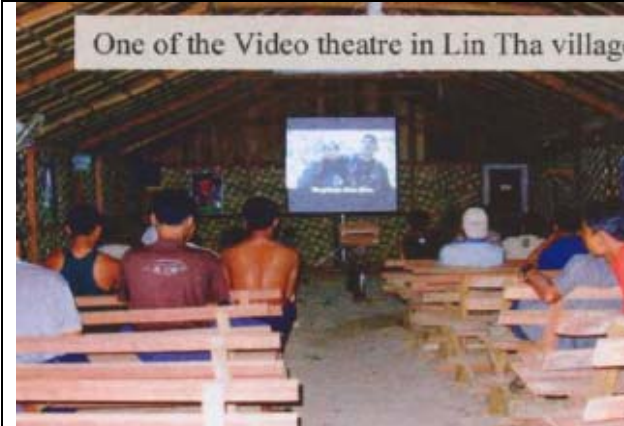
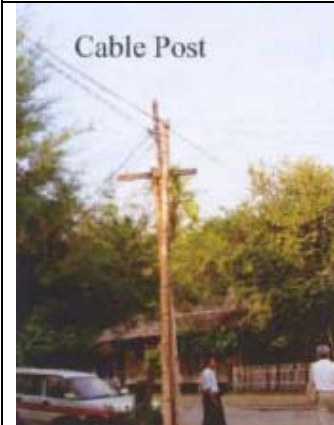
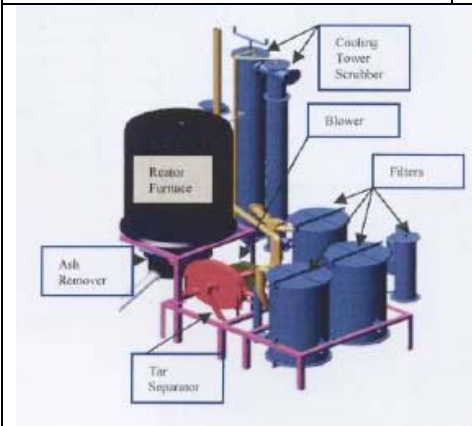


### Biomass - Rural Electrification with rice husk gasifier in Myanmar

Type of project: (tick off the type)	PV	Solar Thermal	Biomass to Energy		
			x		
Project name:	Rural Electrification with rice husk gasifier				
Location of the plant:	<b>Lin Tha Village, Thandwe Township, Rakhine State, Myanmar</b>				
Year of Implementation:	2005				
Operator: (Name and address)	Operators hired by the plant owner				
Planner: (Name and address)	Myanmar Inventor Cooperative Society (MICS)				
Detailed description of the installation: (technology, function, benefit for users, etc. max 150 words)	<p>A thermal converting process of dry biomass (Rice husk) feed-stock into a mixture of gases called producer gas that can be burnt in the internal combustion engines. The electricity is developed from the generator directly driven by the gasifier engine.</p> <p>Benefits from this biomass gasifier system application are: The cost of using rice husk for gasifier is much cheaper than that of using fossil fuel for internal combustion engine getting the same output electrification. It can create the opportunities for the betterment of social and economic conditions of the rural people as the cost of diesel or petrol is too high. It can also enhance the development of new business opportunities for private sector entrepreneurs</p>				
Generated Energy service: (tick off the energy type)	electricity	heat	gas	light	
	X				
Power output of installation: (kWel, m <sup>3</sup> biogas, kW th, etc.)	Engine output: 60 HP Generator output: 30 KW				
Financing (tick off the financing type)	private investment	loan	donation	grant	
	X				
Investment costs in US\$	Building cost: 2,500 US\$ Gasifier Unit: 3,750 US\$ Gas engine: 1,250 US\$ Generator Unit: 1,250 US\$ Electricity main and distribution system: 4,583 US\$ Installation and overhead cost : 2,000 US\$ Total : 15,333 US\$				
Maintenance costs in US\$	Fuel consumption: 1.6 ton/KWh (estimated: 87 tons per year) Man hours for operating and maintenance of the plant: 18615 manhr/year				
Savings:	N/A				
Energy sale income in US\$:	Operation time: 17 hours per day (12 hours rice milling + 5 hours lighting) Energy Sales: N/A				
Comments:	This project has won the 2006 ASEAN Energy Award from ASEAN Center for energy (ACE)				

Pictures and graphics



Source: Asian Energy Awards 2004